

# SECRET

## MONTHLY REPORT



25X1

PAR 202  
PAR 224  
30 July 65

SUBJECT: PAR 202, Briefing Print Enlarger, and  
PAR 224, 3X - 15X Fluid Gate Enlarger

### TASK/PROBLEM

1. PAR 202: To design and build a prototype enlarger for exposing high-quality briefing prints in formats up to and including 20 x 24 inches in size. Magnification to be in the 10 - 60 diameter range. The enlarger will be able to produce both black-and-white and color prints. Change from one capability to the other should be made with a minimum of effort.

2. PAR 224: Develop and fabricate an enlarger having continuously variable magnification from 3X to 15X for 70mm negative gate size. Print sizes to range 40 x 40 inches on cut sheet stock.

### DISCUSSION

3. The activity has been:
  - a. Objective Lenses: All formula samples of objective lenses have been received from manufacturing.
  - b. Objective Focus Assemblies: Fabrication and assembly have not proceeded as rapidly as anticipated due to model shop workload.
  - c. Lamphouse and Gate Assembly: Parts fabrication is complete and assembly effort is 75% complete.
  - d. Enlarger Control System: Cabling and frame wiring are about 95% complete; remainder awaiting completion of lamphouse assembly.

### PLANNED ACTIVITY

4. In the next month, it is expected that:
  - a. Objective focus assemblies will be completed by 20 Aug 65.
  - b. Lamphouse and gate assembly will be complete.
  - c. Enlarger control system will be complete.
  - d. Optical alignment will be accomplished.

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**GROUP 1**  
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## MONTHLY REPORT

PAR 202

PAR 224

30 June 65

SUBJECT: PAR 202, Briefing Print Enlarger, and  
PAR 224, 3X - 15X Fluid Gate Enlarger

### TASK/PROBLEM

1. PAR 202: To design and build a prototype enlarger for exposing high quality briefing prints in formats up to and including 20 x 24 inches in size. Magnification to be in the 10 - 60 diameter range. The enlarger will be able to produce both black-and-white and color prints. Change from one capability to the other should be made with a minimum of effort.

2. PAR 224: Develop and fabricate an enlarger having continuously variable magnification from 3 to 15X for 70mm negative gate size. Print sizes to range 40 x 40 inches on cut sheet stock.

### DISCUSSION

3. All breadboard design sketches have been completed except for a few minor items involving "human engineering" type effort best handled at breadboard final assembly. The activity has been:

#### a. Objective Lenses:

(1) The following five objective lenses have been received:

- |                           |   |                  |
|---------------------------|---|------------------|
| (a) 1.25" (38X to 62X)    | - | PAR 202          |
| (b) 1.9" (24.2X to 40.2X) | - | PAR 202          |
| (c) 3.0" (14.5X to 24.7X) | - | PAR 202          |
| (d) 4.7" (8.5X to 15X)    | - | PAR 202, PAR 224 |
| (e) 7.2" (5X to 9X)       | - | PAR 224.         |

(2) The following two objective lenses are scheduled for delivery by 15 July 65:

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PAR 202

PAR 224

30 June 64

(a) 10.7" (3X to 5X) - PAR 224

(b) 1.25" (38X to 62X) B&W Only - PAR 224.

b. Objective Focus Assemblies: Completion is expected by 1 Aug 65.

c. Lamphouse and Gate Assembly: Parts fabrication is about 95% complete and about 60% of the assembly effort has been accomplished.

d. Enlarger Control System: All chassis have been wired and installed. Cabling and frame wiring are about 50% complete.

PLANNED ACTIVITY

4. In the next month, it is expected that:

- a. All sample objective lenses will be received.
- b. Objective focus assemblies will be complete.
- c. Lamphouse and gate assembly will be complete.
- d. Enlarger control system will be complete.

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